Exam: S.Y.B.Com (Financial Management) Sem- IV	Date:
	Q.P.Code: 70007
Subject: Corporate Finance	7003

INSTRUCTION FOR EXAMINERS AND MODERATORS:

- 1. Stepwise marking scheme is provided for each answer.
- 2. Marks to be allotted even if different formats or methods adopted provided the answer are logically correct.
- 3. For all theory question the examiner can adopt their own sanction and if possible to give full marks if the candidate has justified the answer.
- 4. For any query please feel free to contact:

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Q1 A

State whether the statements are true or false. (Any 8)

Sta	te whether	the statem	ents are tru	e or raise.	(IIII) o)		7	Q	9	10
	1	2	3	4	5	6		0	PALCE	TRUE
Ì	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	IRUE

Q1 B

Match the column. (Any 7)

Column "A"		Column "B"		
Retained Earnings		I	Internal Sources	
2	Bad Debts	Ii	Default Cost	
3	Equity Shares	Iii	Voting Rights	
4	Modern Method	Iv	Capital Structure Planning	
5	BEP	V	No profit – No loss	
6	P/V Ratio	Vi	Relationship between Profit & Sale	
7	Assets	Vii	Liability + Equity	
8	WACC	Viii	Combined Cost of Capital	
9	Capital Structure	Ix	Debt + Equity	
10	NPV	X	Cash inflow – Cash outflow	

Q2 A
(a) Computation of Weighted Average Cost of Capital at Book Value

Sources	Amount	Proportion	After tax Cost	Total Cost after Tax 6.3	
T 1 0 '4-1	90,000	0.45	14%		
Equity Capital	30,000	0.15	13%	1.95	
Retained Earnings		0.10	10%	1.00	
Preference Share	20,000	60,000	5%	1.50	
Debentures	60,000	60,000	370	10.75%	
Total	2,00,000	19	_	10.7370	

Weighted Average Cost of Capital (WACC)= 10.75%

(b) Computation of Weighted Average Cost of Capital at Market Value

Sources	Amount	Proportion	After tax Cost	Total Cost after Tax	
Equity Capital	1,80,000	0.692	14%	9.688%	
Retained Earnings	-	-	(<u>-</u>	-	
Preference Share	20,000	0.077	10%	0.77%	
Debentures	60,000	0.231	5%	1.155%	
Total	2,60,000	-	-	11.61%	

Weighted Average Cost of Capital (WACC)= 11.61%

OR

Q2.B

Particulars	2016 (Rs.)	2017 (Rs.)
Total Cost	12,96,000	18,72,000
Sales	14,40,000	21,60,000
Profit	1,44,000	2,88,000

- a) PV Ratio = 20%
- **b)** Fixed Cost = Rs. 1,44,000
- c) Break Even Sales = Rs. 7,20,000
- **d)** Required Sales = Rs. 37,20,000
- e) Margin of Safety = Rs. 7,20,000

Evaluation of Capital Plans

Particulars	Plan 1	Plan 2	Plan 3	
Farticulars	(Rs.)	(Rs.)	(Rs.)	
EBIT	200000	200000	200000	
Less: Interest	20000	74000	137500	
EBT	180000	126000	62500	
Less: Tax @ 50%	90000	63000	31250	
EAT	90000	63000	31250	
Less: Preference Dividend		*	2美	
Amount available to Equity Shareholders	90000	63000	31250	
EPS	Rs. 3.6 per share	Rs. 4.2 per share	Rs. 3.9 per share	

Recommendation: Plan 2 i.e. to raise Rs. 6 lakhs by equity capital and Rs. 6 lakhs by debt is recommended since the EPS is the highest in this case.

Working Notes:

1. Capital Structure:

Courage	Plan 1	Plan 2	Plan 3
Sources	(Rs.)	(Rs.)	(Rs.)
Equity Share Capital	1000000	600000	200000
Debt	200000	600000	1000000
Total	1200000	1200000	1200000

2. Number of Equity Share:

Number of Equity Shares = Equity Capital Amount
Issue Price Per Share

Plan 1	Plan 2	Plan 3
= 1000000/40	= 6000000/40	= 200000/25
= 25000 Shares	= 15000 Shares	= 8000 Shares



AM Co. Ltd.

Evaluation of Capital Plans

	Plan i	Plan ii	Plan iii
Particulars –	(Rs.)	(Rs.)	(Rs.)
EBIT	9,00,000	9,00,000	9,00,000
Less: Interest On Old Debentures On New Debentures	56,000	56,000	56,000 2,00,000
EBT	8,44,000	8,44,000	6,44,000
Less: Tax @ 50%	4,22,000	4,22,000	3,22,000
EAT	4,22,000	4,22,000	3,22,000
Less: Preference Dividend On Old PSC On New PSC	1,08,000	1,08,000 2,50,000	1,08,000
Amount available to Equity Shareholders	3,14,000	64,000	2,14,000
EPS	7.84 per share	3.20 per share	10.7 per share
MPS= EPS x P/E Ratio	7.84×21.4 = 167.99	3.2 x 17 = 54.40	$10.7 \times 15.7 = 167.99$

Plan iii i.e. issue of 8% debentures is recommended since the EPS and MPS both are the highest in this case.

Working Notes:

Return on Capital Employed = 12% on Capital Employed

 $= 12\% \times (50,00,000 + 25,00,000)$

 $= 12\% \times 75,00,000$

EBIT = Rs. 9,00,000

Q4.A

i. Payback Period Method:

Year	NPAT	Add: Depreciation	Cash Inflow	Cumulative Cash Inflow
1	10000	40000	50000	50000
2	10000	40000	50000	100000
3	20000	40000	60000	160000
4	20000	40000	60000	220000
5	20000	40000	60000	280000

Therefore, Payback Profitability = 3 years + (40000/60000)

= 3.67 Years

ii. Discounted Payback Period

Year	Cash Inflow	DF @ 10%	PVCI	Cumulative Cash Inflow
1	50000	0.909	45450	45450
2	50000	0.826	41300	86750
3	60000	0.751	45060	131810
4	60000	0.683	40980	172790
5	60000	0.621	37260	210050

Therefore, Discounted Payback Period = 4 years + (27210/37260)

= 4.73 Years

iii. Profitability Index

Year	Cash Inflow	DF @ 10%	PVCI		
1	50000	0.909	45450		
2	50000	0.826	41300		
3	60000	0.751	45060		
4	60000	0.683	40980		
5	60000	0.621	37260		
	PV of Cash inflows				
	200000				
	Net Present Value				

Q4. B

Project X							
Year	Cash Inflow	PV Factor	PV of Cash Inflows	PV Factor	PV of Cash Inflows		
	Rs.	@ 10%	Rs.	@ 20%	Rs.		
1	35,000	0.91	31850	0.83	29050		
2	80,000	0.83	66400	0.69	55200		
3	90,000	0.75	67500	0.58	52200		
4	75,000	0.68	51000	0.48	36000		
5	20,000	0.62	12400	0.41	8200		
PV of Cash Inflows			229150		180650		
Less: PV of Cash Outflows			200000		200000		
Net Present Value			29150		-19350		

Project Y

Year	Cash Inflow	PV Factor	PV of Cash Inflows	PV Factor	PV of Cash Inflows
	Rs.	@ 10%	Rs.	@ 20%	Rs.
1	118000	0.91	107380	0.83	97940
2	60000	0.83	49800	0.69	41400
3	40000	0.75	30000	0.58	23200
4	14000	0.68	9520	0.48	6720
5	13000	0.62	8060	0.41	5330
PV of Cash Inflows		204760		174590	
Less: PV of Cash Outflows			200000		200000
Net Present Value			4760		-25410

Accept: Project X

Q5 Marks to be given based of concept.